

# **BENZONITRILE**

UN 2224

Shipping Name: Benzonitrile Other Names: Benzenenitrile

> Cvanobenzene Phenylcyanide



- **WARNING!** POISON! BREATHING THE VAPOR, SWALLOWING THE LIQUID OR SKIN CONTACT CAN KILL YOU! CONVERTED TO CYANIDE IN THE BODY!
  - Firefighting gear (including SCBA) does not provide adequate protection. If exposure occurs, remove and isolate gear immediately and thoroughly decontaminate personnel

#### Hazards:

- Vapors are heavier than air and will collect and stay in low areas
- Container may BLEVE when exposed to fire
- Irritating to skin, eyes, nose and lungs even at low concentrations
- Combustion products include toxic nitrogen oxides
- Corrosive to some plastics

# **Awareness and Operational Level Training** Response:

- Do not put yourself in danger by entering a contaminated area to rescue a victim
- Stay upwind and uphill
- Determine the extent of the problem
- Isolate the area of release or fire and deny entry
- For container exposed to fire evacuate the area in all directions because of the risk of BLEVE
- Evacuate or shelter in place the immediate area and downwind for a large release
- Notify local health and fire officials and pollution control agencies
- If material or contaminated runoff enters waterways, notify downstream users of potentially contaminated water

## Description:

- Colorless liquid
- Almond-like odor
- Sinks in water and is slightly soluble in water
- Very flammable
- Vapors are heavier than air and will collect and stay in low areas
- Freezes at 9° F

### **Operational Level Training Response:**

RELEASE, NO FIRE:

- Stop the release if it can be done safely from a distance
- Prevent material and runoff from entering sewers and waterways if it can be done safely well ahead of the release
- Use large amounts of water to disperse vapors contain runoff
- Consider the application of foam to large areas of spilled liquid to control vapors
- Ventilate confined area if it can be done without placing personnel at risk

#### FIRE:

- Specially trained personnel operating from a safe distance can fight fires using foam or dry chemical if available in sufficient amounts or use fog streams to extinguish burning liquid. Keep exposures cool to protect against reignition. Do not direct straight streams into liquid.
- Cool exposed containers with large quantities of water from unattended equipment or remove intact containers if it can be done safely
- If cooling streams are ineffective (unvented container distorts, bulges or shows any other signs of expanding), withdraw immediately to a secure location

#### **First Aid:**

- Do not put yourself in danger by entering a contaminated area to rescue a victim
- The contaminated victim poses a risk to the responder
- Decontaminate the vicitm from a safe distance with a stream of water; have the victim remove clothing if possible; provide Basic Life Support/CPR as needed
- Decontaminate the victim as follows:
  - ♦ Inhalation remove the victim to fresh air and give oxygen if available
  - Skin remove and isolate contaminated clothing (including shoes) and wash skin with soap and large volumes of water for 15 minutes
  - Eye rinse eyes with large volumes of water or saline for 15 minutes
  - Swallowed do not make the victim vomit
- Seek medical attention
- Toxic effects may be delayed
- Victims should be examined by a physician as soon as possible
- Toxic effects may be delayed
- Note to physician: can produce cyanide toxicity, if symptoms indicate, initial treatment includes the cyanide antidote kit

CAS: 100-47-0